

Attorney Docket No.: 212-02US:0103
Application No.: 09/801,201

Listing of Claims

1. (Currently amended) A switch which comprises:
 - a. a tilt-sensitive transducer that produces an output signal in response to a user input;
 - b. a differentiator adapted to receive ~~connected to~~ said output signal; and
 - c. means, connected to said differentiator, for performing a first switching function.
2. (Currently amended) A switch as claimed in Claim 1 in which said tilt-sensitive transducer comprises a transducer that produces an output signal proportional to said input.
3. (Currently amended) A switch as claimed in Claim 1 in which said tilt-sensitive transducer comprises a transducer that produces an output signal proportional to a tilting input.
4. (Currently amended) A switch which comprises:
 - a. a transducer that produces an output signal in response to a user input;
 - b. a first differentiator adapted to receive ~~connected to~~ said output signal;
 - c. a second differentiator connected to said first differentiator; and
 - d. means, connected to said second differentiator, for performing a first switching function based on rate-of-change.
5. (Previously amended) A switch as claimed in Claim 4 which further comprises means, connected to said first differentiator, for performing a second switching function.
- 6.-8. (Canceled previously)
9. (Currently amended) A method which comprises:
 - a. producing an output signal in response to a user input;
 - b. differentiating said output signal with respect to time; and
 - c. performing a first switching function in response to said differentiated output signal based on rate-of-change.

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10. (Original) A method as claimed in Claim 9 in which said producing step comprises:
 - a. attaching a transducer to a person; and
 - b. body-member actuating said transducer.
11. (Previously amended) A method as claimed in Claim 9 in which:
 - a. said method further comprises differentiating said output signal a second time;
and
 - b. said performing step comprises performing said first switching function in response to said second differentiating step.
12. (Previously amended) A method as claimed in Claim 9 in which:
 - a. said differentiating step comprises differentiating said output signal a second time; and
 - b. said method further comprises performing a second switching function in response to said second differentiating step.
13. (Previously amended) A method as claimed in Claim 9 in which said method further comprises:
 - a. performing said first switching function when said output signal is increasing; and
 - b. performing a second switching function when said output signal is decreasing.
14. (Previously amended) A method as claimed in Claim 9 in which said method further comprises:
 - a. performing said first switching function when said output signal is increasing;
 - b. performing a second switching function when said output signal is decreasing;
and
 - c. producing a logic output as a function of both of said switching functions.
15. (Previously amended) A method which comprises:
 - a. body-member tilting a first tilt-sensitive transducer;
 - b. producing a first output signal proportional to said tilting step;

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- c. differentiating said first output signal with respect to time; and
- d. performing a first switching function in response to said differentiated first output signal.

16. (Previously amended) A method as claimed in Claim 15 in which said method further comprises:

- a. body-member tilting a second tilt-sensitive transducer;
- b. producing a second output signal proportional to said tilting of said second tilt-sensitive transducer;
- c. differentiating said second output signal with respect to time; and
- d. performing a logic output as a function of said first and second differentiated output signals.

17. (Previously amended) A method as claimed in Claim 15 in which said performing step comprises performing a switching function that includes momentary contact switching, and said method further comprises:

- a. initiating a sequential plurality of time delays in which one is a window of opportunity;
- b. refraining from said momentary-contact switching step during a first time delay that follows said initiating step;
- c. performing said momentary-contact switching step within said window of opportunity that follows said first time delay;
- d. refraining from said momentary-contact switching step during a second time delay that follows said window of opportunity; and
- e. initiating operation of a first electrical device subsequent to successful completion of the preceding steps.

18. (Canceled previously)

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19. (Previously amended) A method as claimed in Claim 17 in which said method further comprises:

- a. momentary-contact switching during said second time delay; and
- b. initiating operation of a second electrical device in response to said momentary-contact switching step occurring during said second time delay.

20.-30. (Canceled)

31. (Previously amended) A method which comprises:

- a. body-member actuating a transducer;
- b. producing an output signal proportional to said body-member actuating step; and
- c. performing a switching function in response to a rate-of-change of said output signal.

32. (Previously amended) A method as claimed in Claim 31 in which:

- a. said producing step comprises producing an output signal that increases and decreases; and
- b. said performing step comprises performing said switching function whenever said rate-of-change of said increasing output signal reaches a predetermined magnitude.

33. (Previously amended) A method as claimed in Claim 31 in which:

- a. said producing step comprises producing an output signal that increases and decreases; and
- b. said performing step comprises performing said switching function whenever said rate-of-change of said decreasing output signal reaches a predetermined magnitude.

34. (Previously amended) A method as claimed in Claim 31 in which said method further comprises controlling an apparatus in response to said output signal.

35. (Previously amended) A method as claimed in Claim 31 in which said method further comprises activating control of any apparatus in response to said switching function.

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36. (Previously amended) A method as claimed in Claim 76 in which said method further comprises activating control of an apparatus in response to said switching function.
37. (Previously amended) A method as claimed in Claim 76 in which said method further comprises controlling an apparatus in response to said output signal.
38. (Previously amended) A method as claimed in Claim 76 in which said method further comprises activating control of an apparatus in response to said switching function being performed inside a window of opportunity.
39. (Previously amended) A method as claimed in Claim 76 in which said method further comprises:
- a. activating control of an apparatus in response to said switching function being performed inside a window of opportunity; and
 - b. aborting said activating step in response to said switching function being performed outside said window of opportunity.
40. (Previously amended) A method as claimed in Claim 76 in which said method further comprises activating a shut-down function of an apparatus in response to said switching function.
41. (Previously amended) A method as claimed in Claim 76 in which said method further comprises activating a selected one of a first or a second apparatus in response to said switching function.
42. (Previously amended) A method as claimed in Claim 76 in which said method further comprises:
- a. activating a selected one of a first or a second apparatus in response to performing said switching function during a window of opportunity; and
 - b. proportionally controlling a function of said selected apparatus as a function of said proportional output signal.

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43. (Previously amended) A method as claimed in Claim 76 in which said method further comprises:

- a. activating a selected one of a first or a second apparatus in response to performing said switching function during a window of opportunity;
- b. selecting a function of said selected apparatus to be controlled; and
- c. said selecting step comprises performing an other switching function.

44. (Previously amended) A method as claimed in Claim 76 in which said method further comprises:

- a. activating a selected one of a first or a second apparatus in response to performing said switching function during a window of opportunity;
- b. selecting a function of said selected apparatus to be controlled;
- c. said selecting step comprises performing an other switching function;
- d. controlling said selected function; and
- e. said controlling step comprises performing still an other switching function.

45. (Previously amended) A method as claimed in Claim 76 in which said method further comprises:

- a. initiating cascading a plurality of task opportunities;
- b. selecting a task; and
- c. said selecting step comprises performing said switching function.

46. (Previously amended) A method as claimed in Claim 76 in which said method further comprises:

- a. initiating cascading a plurality of task opportunities;
- b. selecting a task;
- c. said selecting step comprises performing said switching function;
- d. selectively controlling said task; and
- e. said selective controlling step comprises performing an other switching function.

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47. (Previously amended) A method as claimed in Claim 76 in which said method further comprises:

- a. initiating cascading a plurality of task opportunities; and
- b. said initiating step comprises performing said switching function.

48. (Previously amended) A method as claimed in Claim 76 in which said method further comprises:

- a. initiating cascading a plurality of task opportunities;
- b. said initiating step comprises performing said switching function;
- c. selecting a task; and
- d. said selecting step comprises performing an other switching function.

49. (Previously amended) A method as claimed in Claim 76 in which said method further comprises:

- a. initiating cascading a plurality of task opportunities;
- b. said initiating step comprises performing said switching function;
- c. selecting a task;
- d. said selecting step comprises performing an other switching function;
- e. selectively controlling said task; and
- f. said selective controlling step comprises performing still an other switching function.

50. (Currently amended) A method which comprises:

- a. body-member producing first and second proportional output signals; and
- b. controlling both first and second proportional functions and a switching function of an apparatus in response to said output signals, wherein the switching function is controlled based on a rate-of-change of at least one of said first and second proportional output signals.

51. (Original): A method as claimed in Claim 50 in which said controlling step of said switching function comprises differentiating one of said output signals.

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52. (Previously amended) A method as claimed in Claim 50 in which:
- a. said body-member producing step comprises producing output signals that change in both increasing and decreasing directions; and
 - b. said controlling step further comprises controlling said switching function in response to a rate-of-change of one of said output signals that exceeds a predetermined magnitude when said one output signal is changing in a selected one of said directions.

53-61. (Canceled previously)

62. (Currently amended) A switch which comprises:
- a. a mechanical-to-electrical tilt-sensitive transducer;
 - b. a differentiator connected to said tilt-sensitive transducer; and
 - c. a comparator connected to said differentiator.

63. (Currently amended) A switch which comprises:
- a. a transducer that produces increasing and decreasing output signals proportional to user actuation in first and second directions; and
 - b. means for producing a second switching function in response to a predetermined rate-of-change of said output signal produced by user actuation of said transducer in one of said directions.

64-73. (Canceled previously)

74. (Previously added) A switch as claimed in Claim 63 in which said switch comprises means, for producing a second switching function in response to a predetermined rate-of-change of said output signal produced by user actuation of said transducer in the other of said directions.

75. (Previously added) A switch as claimed in Claim 63 in which:
- a. said switch comprises means for producing a second switching function in response to a predetermined rate-of-change of said output signal produced by user actuation of said transducer in the other of said directions; and

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- b. said switch further comprises means, for producing a third switching function.
76. (Previously added) A method which comprises:
- producing an output signal;
 - selectively performing a switching function in response to said output signal;
 - preventing variations in said output signal from performing said switching function; and
 - performing said switching function in response to a predetermined rate-of-change of said output signal.
77. (Previously added) A method as claimed in Claim 76 in which said producing step comprises actuating an input.
78. (Previously added) A method as claimed in Claim 76 in which said producing step comprises body-member actuating an input.
79. (Previously added) A method as claimed in Claim 76 in which said performing step further comprises selectively adjusting said predetermined rate-of-change of said output signal.
80. (Previously added) A method as claimed in Claim 76 in which said performing step comprises differentiating said output signal.
81. (Previously added) A method which comprises:
- producing an output signal that is a function of an input;
 - controlling an apparatus in response to said output signal; and
 - performing a switching function in response to a predetermined rate-of-change of said output signal.
82. (Previously added) A method as claimed in Claim 81 in which said producing step comprises body-member actuating said input.

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83. (Previously added) A method as claimed in Claim 81 in which said performing step further comprises selectively adjusting said predetermined rate-of-change of said output signal.
84. (Previously added) A method as claimed in Claim 81 in which said performing step comprises differentiating said output signal.
85. (Previously added) A method which comprises:
- performing a body-member gesture;
 - controlling an output signal in response to said body-member gesture;
 - maintaining a switch output status irrespective of said body-member gesture; and
 - changing said switch output status in response to a predetermined velocity of said performing step.
86. (Previously added) A method as claimed in Claim 85 in which said method further comprises controlling an apparatus in response to said body-member gesture.
87. (Previously added) A method as claimed in Claim 85 in which said method further comprises selectively adjusting said predetermined velocity of said performing step.
88. (Previously added) A method as claimed in Claim 85 in which said changing step comprises differentiating said output signal.
89. (Currently amended) A method which comprises:
- performing a body-member gesture;
 - controlling an output signal in response to said body-member gesture;
 - maintaining a switch output status irrespective of said controlling step; and
 - changing said switch output status in response to a predetermined rate-of-change of said output signal.
90. (Previously added) A method as claimed in Claim 89 in which said method further comprises initiating control of an apparatus in response to said output signal.

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91. (Previously added) A method as claimed in Claim 89 in which said method further comprises controlling an apparatus in response to said output signal.
92. (Previously added) A method as claimed in Claim 89 in which:
- a. said performing step comprises increasing and decreasing said output signal; and
 - b. said changing step comprises changing said switch output status in response to said increasing output signal.
93. (Previously added) A method as claimed in Claim 89 in which:
- a. said performing step comprises increasing and decreasing said output signal; and
 - b. said changing step comprises changing said switch output status in response to said decreasing output signal.
94. (Previously added) A method as claimed in Claim 89 in which:
- a. said performing step comprises producing increasing and decreasing output signals;
 - b. said changing step comprises changing said switch output status in response to said increasing output signal; and
 - c. said method further comprises performing an other switching function in response to said decreasing output signal.
95. (Previously added) A method as claimed in Claim 89 in which said changing step comprises differentiating said output signal.